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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/776,044	02/26/1997	MARGARET BYWATER	1614-178P	1463
2292 7	590 07/08/2003	· ·		
BIRCH STEWART KOLASCH & BIRCH			· EXAMINER	
PO BOX 747 FALLS CHURCH, VA 22040-0747			YU, MISOOK	
FALLS CHUR	CH, VA 22040-0747			·
			ART UNIT	PAPER NUMBER
			1642	71
		•	DATE MAILED: 07/08/2003	4

Please find below and/or attached an Office communication concerning this application or proceeding.

· c						
C.	Application No.	Applicant(s)				
	08/776,044	BYWATER ET AL.				
Office Action Summary	Examiner	Art Unit				
	MISOOK YU, PI					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, howe y within the statutory mini will apply and will expire \$ 1, cause the application to	ever, may a reply be timely filed firmum of thirty (30) days will be considered timely. SIX (6) MONTHS from the mailing date of this communication. become ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 08 I	May 2003 and 26	September 2002 .				
2a) ☐ This action is FINAL . 2b) ☑ Th	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-10,14 and 15 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10,14 and 15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o Application Papers	r election requirer	nent.				
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	reau (PCT Rule 1	7.2(a)).				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4)	Interview Summary (PTO-413) Paper No(s) Notice of Informal Patent Application (PTO-152) Other:				

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The Examiner of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Examiner Misook Yu.

DETAILED ACTION

Continued Prosecution Application

The request filed on May 5, 2003 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/776,044 is acceptable and a CPA has been established. An action on the CPA follows.

Claims 1-10, 14, and 15 are pending and examined on merits.

Claim Rejections - 35 USC § 112

Claim 3 remains rejected for reason of record under 35 U.S.C. 112, first

paragraph, as failing to comply with the enablement requirement. The claim(s) contains
subject matter which was not described in the specification in such a way as to enable
one skilled in the art to which it pertains, or with which it is most nearly connected, to
make and/or use the invention. Applicant argues in the response filed on 9-26-2002
(Paper No. 30) that mutation causing a frameshift in amino acid sequence in p53 or
nonsense mutaion which results in truncated p53 is more detrimental than missense
mutation which causes single amino acid substitution. One in ordinary skill would agree
with the applicant's argument that out-of frameshift and nonsense mutations are more
detrimental to cancer patient because these mutations would knock out the function of
affected region of p53. However, the claim as written, especially the conclusion step of
the claim says that any mutation in the conserved region II and V of p53 is indicative of
poor outcome of patient survival whereas any mutation in the conserved region of III.

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and IV is indicative of positive outcome of patient survival. This is interpreted as a nonsense mutation in the conserved region III results in better outcom than a nonsense mutation in the conserved region V. A nonsense mutation in the conserved region III will abolish the function of the conerved reion V because the stop codon is placed well before the reion V. Therefore, it is concluded that a mutation in the conserved region III could not result in better outcome than a mutation in conserved region of V. This kind of analysis could also done with out-of frame shift mutation. Any out-of-frame shift mutation in closer to N-terminal p53 is worse than any out-of-frame shift mutation in C-terminal end for the same reason above.

Claim Rejections - 35 USC § 102

Claim 15 remain rejected for reason of record under 35 U.S.C. 102(e) as being anticipated by Vogelstein et al (US PAT 5,527,676; issued June 18, 1996; effective filing date of December 6, 1989).

Applicant argues that Vogelstein et al fail to disclose a method for prognostication of the development of neoplasia in a human patient. However, this argument is not persuasive because Volgelstein et al teach at column 1 (see also page 7 Paragraph # 13 of the prior Office action, Paper No. 25) that the reason for undertaking the study disclosed in the patent is to define the particular genetic region in the short arm of chromosome 17 responsible for progression of curable adenoma to lethal carcinoma. Volgenstein et al teach that that specific genetic region is the gene encoding p53 and mutation in that specific genetic region is responsible for progression of benign, curable disease to lethal carcinoma (indicative of poor patient survival), thus

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Vogelstein et al teach a method of prognostication of the development of neoplasgia by detecting a mutation in p53. The broadly written claim 15 thus reads on the prior art.

Claim Rejections - 35 USC § 103

Claims 1, 2, 4-10, and 14 remain rejected for reason of record under 35 U.S.C. 103(a) as being unpatentable over Vogelstein et al as applied to claim 15 above, and in view of Elledge et al (Breast Cancer Res. Treat. 27, 95-102, 1993), and of Callahan (J. Natl. Cancer Institute, 83, 826-7, 1992) and further in view of Hedrum (IDS, BioTechniques, 17, 118-29, 1993).

Applicant argues since Volgelstein et al above do not teach method of prognostication of neoplagia, this rejection also falls. However, the Office interprets that broadly written claim 15 reads on Vogelstein et al, thus this rejection also stands.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 703-308-2454. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony C Caputa can be reached on 703-308-3995. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-872-9307 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Misook Yu July 8, 2003

MARY E. MOSHER PRIMARY EXAMINER GROUP-1800 //

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